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NOTICE OF ALLOWANCE AND FEE(S) DUE

25281

7590

11/12/2010

DICKE, BILLIG & CZAJA FIFTH STREET TOWERS 100 SOUTH FIFTH STREET, SUITE 2250 MINNEAPOLIS, MN 55402 EXAMINER

NGHIEM, MICHAEL P

ART UNIT PAPER NUMBER

2857

DATE MAILED: 11/12/2010

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------|-------------------------|----------------------|----------------------|------------------|
| 10/564,650 | 08/07/2006 | Claus Dworski | 1431.144.101/FIN 503 | 9691 |
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TITLE OF INVENTION: ELECTRICAL CIRCUIT AND METHOD FOR TESTING ELECTRONIC COMPONENT

| | APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|---|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| • | nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 02/14/2011 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

| appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new of maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | on of maintenance fees will be mailed to the current correspondence address as correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must | | | |
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| 25281 | 7590 11/12 | W2010 | hav | e its own certificate | e of mai | ling or transmission. | |
| DICKE, BILLIG & CZAJA FIFTH STREET TOWERS 100 SOUTH FIFTH STREET, SUITE 2250 | | | | Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. | | | |
| MINNEAPOLIS | S, MN 55402 | | | | | | (Depositor's name) |
| | | | | | | | (Signature) |
| | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | ₹ | ATTO | RNEY DOCKET NO. | CONFIRMATION NO. |
| 10/564,650 | 08/07/2006 | | Claus Dworski | | 1431 | 1.144.101/F1N 503 PCT/ | 9691 |
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| EXAM | IINER | ART UNIT | CLASS-SUBCLASS | 7 | | | |
| NGH1EM, N | MICHAEL P | <u>1</u> 2857 | 702-117000 | J | | | |
| "Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un | oondence address (or Cha B/122) attached. dication (or "Fee Address 22 or more recent) attach LND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Com | "Indication form ted. Use of a Customer A TO BE PRINTED ON ified below, no assignee | 2. For printing on the (1) the names of up to or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be THE PATENT (print or ty data will appear on the pT a substitute for filing an (B) RESIDENCE: (CIT | o 3 registered paterively, the firm (having as a agent) and the nanorneys or agents. If a printed. Type) Type (patent. If an assign assignment. | a memb nes of up no nam | er a 2 | cument has been filed for |
| Please check the appropriate. 4a. The following fee(s) 1 ssue Fee | | | rinted on the patent): b. Payment of Fee(s): (Ple | | | | up entity Government |
| Publication Fee (No small entity discount permitted) Advance Order - # of Copies | | | Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | |
| 5. Change in Entity Sta | itus (from status indicate as SMALL ENTITY statu | * | b. Applicant is no lo | nger claiming SMA | LL ENT | ΓΙΤΥ status. See 37 CF | R 1.27(g)(2). |
| NOTE: The Issue Fee an interest as shown by the | d Publication Fee (if req records of the United Sta | uired) will not be accepte tes Patent and Trademark | ed from anyone other than c Office. | the applicant; a reg | istered a | nttorney or agent; or the | assignee or other party in |
| Authorized Signature | | | | Date | | | |
| Typed or printed name | | | | | | | |
| This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223 | tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC | FR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR | on is required to obtain or 1.14. This collection is es y depending upon the indi the Chief Information Offic COMPLETED FORMS T | retain a benefit by stimated to take 12 vidual case. Any c er, U.S. Patent and O THIS ADDRES | the publ minutes omment Traden S. SENI | ic which is to file (and to complete, including s on the amount of tim nark Office, U.S. Depa O TO: Commissioner fo | by the USPTO to process) gathering, preparing, and the you require to complete the threat of Commerce, P.O. or Patents, P.O. Box 1450, |

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| DICKE, BILLIG | & CZAJA | NGHIEM, N | MICHAEL P | |
| FIFTH STREET T | O | ART UNIT | PAPER NUMBER | |
| 100 SOUTH FIFTH STREET, SUITE 2250 MINNEAPOLIS, MN 55402 | | | 2857 DATE MAILED; 11/12/201 | 0 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 541 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 541 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| | Application No. | Applicant(s) | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--|--|--|
| | 10/564,650 | DWORSKI ET AL. | | | |
| Notice of Allowability | Examiner | Art Unit | | | |
| | MICHAEL P. NGHIEM | 2857 | | | |
| The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI | (OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308. | olication. If not included will be mailed in due course. THIS | | | |
| 1. This communication is responsive to <u>Amendment filed on 2</u> | <u>20 October 2010</u> . | | | | |
| 2. The allowed claim(s) is/are <u>33-37,39,43-45 and 49-53</u> . | | | | | |
| Acknowledgment is made of a claim for foreign priority ur All b) | been received. been received in Application No cuments have been received in this r of this communication to file a reply of | national stage application from the | | | |
| 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. | | | | | |
| CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the | on's Patent Drawing Review (PTO-9 s Amendment / Comment or in the O | office action of | | | |
| DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | | | | | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) | 5. ☐ Notice of Informal Pa | atent Application | | | |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. Interview Summary | (PTO-413), | | | |
| 3. Information Disclosure Statements (PTO/SB/08), | Paper No./Mail Dat 7. ⊠ Examiner's Amendn | e nent/Comment | | | |
| Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. | | | | |
| | | | | | |

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

This examiner's amendment corrects minor informalities in the claims and cancels non-elected claims.

The application has been amended as follows:

In Claim 39:

line 18, before "test signal", insert – deviation-corrected --.

In Claim 49:

Replace lines 19-20 with – a shift register and a selection element, particularly a decoder, coupled to the shift register, particularly a decoder, which is formed in such a manner that in each case one bus driver is activated in --.

In Claim 50:

Replace lines 21-22 with – a shift register and a selection element, particularly a decoder, coupled to the shift register, particularly a decoder, which is formed in such a manner that in each case one bus driver is activated in --.

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In Claim 51:

line 16, before "test signal", replace "a" with – the --.

Replace lines 20-21 with – a shift register and a selection element, particularly a decoder, coupled to the shift register, particularly a decoder, which is formed in such a manner that in each case one bus driver is activated in --.

In Claim 53:

Replace lines 20-21 with – a shift register and a selection element, particularly a decoder, coupled to the shift register, particularly a decoder, which is formed in such a manner that in each case one bus driver is activated in --.

This application is in condition for allowance except for the presence of claims 46 and 54-64 directed to Group I, Species II and Group II non-elected without traverse.

Accordingly, claims 46 and 54-64 have been cancelled.

Reasons For Allowance

The following is an examiner's statement of reasons for allowance:

The **combination** as claimed wherein an electrical test circuit comprising a control device comprising a control loop circuit which is provided for adapting the deviation of the test signal, the control loop circuit being configured in such a manner

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that a deviation-corrected test signal is generated in that the difference values between the deviations of the test signal and of the reference signal is added together and in that the test signal is corrected by addition with the aggregate difference value (claim 33) or the control device comprises an amplitude correction circuit for matching the amplitude of the reference signal to the amplitude of the test signal, the amplitude correction circuit including an absolute value generator being configured to receive an amplitudecorrected test signal and output an absolute value of the deviation-corrected test signal; an adder being configured to receive the output of the absolute value generator and output an RMS value of the deviation corrected test signal; a multiplier receiving the RMS value from the memory and the reference signal such that the reference signal is corrected with the RMS value of the deviation-corrected test signal (claim 39) or the squares of the amounts of the difference values between the deviation-corrected test signal and the amplitude- and phase-corrected reference signal are added together by the measuring device or the minimum and maximum values of the difference values between the deviation-corrected test signal and the amplitude- and phase-corrected reference signal are stored by the measuring device (claim 43) or the phase displacement circuit comprising a first output connected to the bus drivers, which is intended for sending out the phase displaced reference signal to the electrical test circuit and a second output for sending out a control signal (claims 49-51, 53) is not disclosed, suggested, or made obvious by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Page 5

Hirasaka (US 6,127,869) discloses a NLTS correction circuit (500, Fig. 5) comprising a D-type flip flop (509), shift register (504), decoder (507), and selector (502). Hirasaka discloses the correction circuit (500) outputting data signals to be recorded on a disk (103) to be tested, through recording amplifier (101) and recording head (102) (Fig. 5). However, Hirasaka does not disclose the correction circuit (500) comprising at least a second output signal for sending out a control signal.

Kuegler (EP 550 187) discloses a calibration circuit (10) comprising a summing circuit (29) for comparing a reference signal with the output stream from the converter and computes compensation values (Abstract). Kuegler discloses retrieving a compensation value and adding the compensation value to an output signal (Fig. 2). However, Kuegler does not disclose adding the difference values between the deviations of the output stream and of the reference signal to obtain the aggregate difference value and the output stream/signal is corrected by addition with the aggregate difference value.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P Nghiem whose telephone number is (571)

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Art Unit: 2857

272-2277. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eliseo Ramos-Feliciano can be reached at (571) 272-7925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Michael P. Nghiem/

Primary Examiner, GAU 2857

November 4, 2010